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09/844,898	04/27/2001	Erlend Olson	41705/SAH/B600	1523
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CHRISTIE, PARKER & HALE, LLP			SON, LINH L D	
PO BOX 7068			ART UNIT	
PASADENA, CA 91109-7068			PAPER NUMBER	

2135

DATE MAILED: 12/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

DETAILED ACTION

1. This Office Action is responding to the RCE received on 09/09/2005.
2. Claims 1-47 are pending.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1, 6-7, 12-21, 26-37, 41, and 47 are rejected under 35 U.S.C. 102(e) as being anticipated by Harrison et al, US/6101255, hereinafter "Harrison".

5. As per claims 1 and 7:

Harrison discloses "A system for distributing cryptographic keys for encrypting digital data, the system comprising: a first memory for storing a cryptographic key" in (Fig 1, # 36, 38, and Col 5 lines 25-41);

"a digital data input medium for receiving digital data to be encrypted" in (Fig 1, #13, Col 5 lines 10-12);

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"a second memory" in (Col 4 lines 42-50);

"a multiplexer coupled to the digital data input medium and for transmitting the digital data or the cryptographic key on the digital data input medium" in (Fig 1, #11, Col 4 lines 7-24, Col 5 lines 30-36); and

"a selector for coupling the first memory to the second memory via the digital data input medium" in (Fig 1, #11, Col 4 lines 7-24, Col 4 lines 42-49, Col 5 lines 30-36, and Col 14 lines 5-15)

"the selector for receiving the digital data and the cryptographic key from the multiplexer, and for providing the cryptographic key to the second memory, wherein the second memory is used to store the cryptographic key temporarily before the cryptographic key is used for encrypting the digital data" in (Fig 1, Col 4 lines 42-49).

6. As per claims 6 and 26:

Harrison discloses "The system according to claim 1, wherein the second memory and the selector are implemented on a single integrated circuit chip" in (Fig 1 #17, Col 3 lines 42-49).

7. As per claims 12, 16, 30, and 32:

Harrison discloses "A system for encrypting digital data, the system comprising: a first input terminal for receiving the digital data" in (Fig 1, #13, Col 5 lines 10-12);

"a second input terminal for receiving a key" in (Fig 1, # 36, 38, and Col 5 lines 25-41);

"an encryptor for receiving' and encrypting the digital data using the key" in (Fig 1#17, Col 4 lines 25-49, and Col 5 lines 25-35); and

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"a first output terminal for transmitting the encrypted digital data (Fig 1, #37), wherein the system receives the key from an external key storage medium (Col 5 lines 30-36) via the second input terminal during operation of the system" in (Col 4 lines 7-24, Col 4 lines 42-49).

8. As per claims 13 and 31:

Harrison discloses "The system for encrypting digital data according to claim 12, the system further comprising random access memory (RAM) for storing the key before the key provided to the encryptor to be used for encryption of the digital data" in (Col 4 lines 42-49).

9. As per claim 14:

Harrison discloses "The system for encrypting digital data according to claim 13, the system further comprising a multiplexer coupled to the first input terminal and the second input terminal, wherein the multiplexer outputs either the digital data from the first input terminal or the key from the second input terminal" in (Fig 1 #11, Col 4 lines 7-24, Col 4 lines 42-49).

10. As per claim 15:

Harrison discloses "The system for encrypting digital data according to claim 14, the system further comprising a selector switch for receiving the digital data and the key from the multiplexer, wherein the selector switch provides the digital data to the encryptor, and wherein the selector switch provides the key to the RAM" in (Fig 1#17, Col 4 lines 42-49).

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11. As per claims 17 and 33:

Harrison discloses "The system for encrypting digital data according to claim 12, wherein the second input terminal receives the key as a plurality of key segments" in (Col 12 lines 60-67).

12. As per claims 18-19 and 34-35:

Harrison discloses "The system for encrypting digital data according to claim 12, wherein the key includes a decryption key, which is used for decrypting the encrypted digital data" in (Col 15 lines 1-12).

13. As per claim 20:

Harrison discloses "The system for encrypting digital data according to claim 19, wherein the decryption key is encoded prior to being transmitted via the first output terminal" in (Col 17 lines 23-29).

14. As per claim 27:

Harrison discloses "The system for encrypting digital data according to claim 12, wherein the second input terminal comprises a control bus, and wherein the system further comprises a controller coupled to the control bus, wherein the controller controls data flow in the system" in (Fig 1, # 36, 38, and Col 5 lines 25-41).

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15. As per claim 28:

Harrison discloses "The system of encrypting digital data according to claim 27, wherein the control bus comprises an I²C bus" in (Fig 1, # 36, 38, and Col 5 lines 25-41).

16. As per claim 29:

Harrison discloses "The system of encrypting digital data according to claim 27, wherein the controller is selected from a group consisting of a finite state machine (FSM), a microprocessor and a micro controller" in (Fig 1, # 36, 38, and Col 5 lines 25-41).

17. As per claims 21, and 36-37:

Harrison discloses "The system for encrypting digital data according to claim 20, wherein the key includes an encoding key, and the encoding key is used to encode the decryption key in the encryptor before the decryption key is transmitted via the first output terminal" in (Col 17 lines 23-29).

18. As per claim 47:

Harrison discloses "A system for encrypting digital data, the system comprising:
"a first input terminal for receiving the digital data" in (Fig 1, #13, Col 5 lines 10-12);
"a second input terminal for receiving a key" in (Fig 1, # 36, 38, and Col 5 lines 25-41);

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“an encryptor for receiving and encrypting the digital data using the key, the encryptor having a key storage provided as an integral component thereon for storing the key; a first output terminal for transmitting the encrypted digital data” in (Fig 1#17, Col 4 lines 25-49, and Col 5 lines 25-35);

“a multiplexer coupled to the first input terminal and the second input terminal, wherein the multiplexer outputs either the digital data from the first input terminal or the key from the second input terminal” in (Fig 1, #11, Col 4 lines 7-24, Col 5 lines 30-36); and

“a selector switch for receiving the digital data and the key from the multiplexer” in (Col 5 line 57 to Col 6 line 14, and Col 8 lines 37-54), wherein the selector switch provides the digital data to the encryptor, and wherein the selector switch provides the key to the key storage, wherein the key storage of the encryptor receives the key from an external key storage medium via the second input terminal during operation of the system” in (Col 5 line 57 to Col 6 line 14, Col 5 lines 25-35).

Claim Rejections - 35 USC § 103

19. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

20. Claims 2-5, 8-11, 22-25, and 38-40 rejected under 35 U.S.C. 103(a) as being unpatentable over Harrison in view of Etzel et al, US Patent No. 6577734B1, hereinafter "Etzel" (cited in PTO 892 dated 09/24/04).

21. As per claims 2, 8, 22, 38, and 40:

Harrison discloses "The system according to claim 1". However, Harrison does not specifically teach "wherein the digital data comprises digital video data".

Nevertheless, Etzel discloses a cryptographic system which is implemented to encrypt the digital video data" in (Col 2 lines 45-48).

Therefore, it would have been obvious at the time of the invention was made to one having ordinary skill in the art to incorporate Etzel's teaching with Harrison to utilize the cryptographic system in Harrison to encrypt digital video data.

22. As per claims 3, 9, 23, and 39:

Harrison and Etzel discloses "The system according to claim 2" However, Harrison does not discloses "wherein the digital video data is in composite RGB format". Nevertheless, Etzel discloses the digitized video signal and MPEG-2 encoding provided to the user over the cable-TV systems and direct broadcast satellite video systems (Col 1 lines 15-18, and Col 2 lines 45-50). Therefore, it would have been obvious at the time of the invention for one having ordinary skill in the art to recognize that the video broadcasting technology, which is implemented in Etzel's invention, must be RGB (Color) to be compatible with the customer TV display. Further, Black and White movies and images are not favored to the customers.

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23. As per claims 4, 10, and 24:

Harrison discloses "The method according to claim 8". However, Harrison does not specifically teach "wherein the digital data comprises multimedia data"

Nevertheless, Etzel discloses a cryptographic system, which is implemented to encrypt the multimedia data in (Col 2 lines 35-40).

Therefore, it would have been obvious at the time of the invention was made to one having ordinary skill in the art to incorporate Etzel's teaching with Harrison to utilize the cryptographic system in Harrison to encrypt the multimedia data.

24. As per claims 5, 11, and 25:

Harrison discloses "The method according to claim 7". However, Harrison does not specifically teach "wherein the first set of encryption keys includes keys compatible with the High-bandwidth Digital Content Protection specification"

Nevertheless, Etzel discloses a cryptographic system, which is implemented the "encryption keys includes keys compatible with the High-bandwidth Digital Content Protection specification" in (Col 1 lines 30-40).

Therefore, it would have been obvious at the time of the invention was made to one having ordinary skill in the art to incorporate Etzel's teaching with Harrison to utilize the keys compatible with the High-bandwidth Digital Content Protection specification in Etzel to better protect the digital content in transmission.

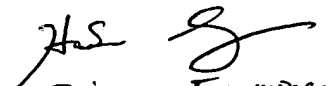
Allowable Subject Matter

25. Claims 42-46 are allowed.
26. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Linh LD Son whose telephone number is 571-272-3856. The examiner can normally be reached on 9-6 (M-F).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on 571-272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Linh LD Son
Examiner
Art Unit 2135


Primary Examiner
Art Unit 2135